turn claims the benefit of priority from Japanese Patent Appl. No. 9-292228 filed on October 24, 1997, both of which are incorporated by reference herein as fully as if set forth in their entirety.--

In the Claims:

Please cancel all pending claims and add the following new claims:

--17. An optical signal transmitter comprising:

a laser diode for outputting an optical signal to be transmitted;

a driving current source for driving said laser diode;

a plurality of control circuits to output control signals for controlling the optical wavelength of said laser diode in different control modes; and

a selector arranged so as to select one of said control modes according to the external conditions of said laser diode, and to apply a control signal output from said selected control circuit to said laser diode, thereby achieving stabilizing control of optical wavelength in said selected control mode.

18. An optical signal transmitter comprising:

a laser diode for outputting an optical signal to be transmitted;

a driving current source for driving said laser diode;

a parameter deviation detector to detect a first control deviation of one parameter responsible for causing variations of optical wavelength output from said laser diode from a predetermined target value;

an optical wavelength deviation detector to detect a second control deviation of optical